44326S3

GENERATION OF PARTIAL TRACES IN MODEL CHECKING

ABSTRACT

A method for checking a model includes specifying a
path to be traversed through the states of a system under
5   study, such that a specified sequence of events is to
occur on the specified path between an initial state and
a target set of states on the path. Beginning from the
initial state, successive reachable sets of states along
the specified path are computed, such that in the
10   successive reachable sets the events occur in the
specified sequence. When an intersection is not found to
exist between one of the reachable sets on the specified
path and the target set, a partial trace is produced
along the specified path between the initial state and a
15   termination state in which at least one of the specified
events occurs.

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